

SIX FLAGS NEW ENGLAND	
SUBJECT: AUTOMATIC FIRE PROTECTION	SAFETY REFERENCE MANUAL
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EFFECTIVE: January 2016	SUPERSEDES: ALL PREVIOUS
CFR #: 29 CFR <b>1910</b> Subpart L – Fire Protection	

## **2.1 PURPOSE**

To provide guidelines for Automatic Fire Protection maintenance and inspections

## **2.2 POLICY**

All applicable employees will be familiar with and adhere to the written guidelines for Automatic Fire Protection.

## **2.3 SCOPE**

This policy applies to all associates in the following areas:

- Maintenance
- Safety
- Security

## **2.4 INSPECTION PROCEDURE**

### **2.4.1 Control Valves**

#### **A. Sprinkler Control Valves**

All indoor and outdoor sprinkler control valves must be inspected monthly, even if they are locked. Non-indicating and indicator valves should be physically turned to guarantee that the valve is wide open.

To verify that the valve is open, the inspector makes a drain test. The drain test is completed by drawing water from the sprinkler riser through the two-inch drain. The inspector watches the gauge, notes the drop in pressure when the valve is open, and then closes the drain valve. A quick return of pressure indicates that the valve is closed. A slow return of pressure can indicate that the valve is partially shut, that there is a partial obstruction, or that some other defect is present. No return of pressure means that the valve is not shut or is completely obstructed.

The water flow alarm bell in each system must also be checked monthly.

#### **B. Post Indicator Valve**

The inspector should not rely on an "open" reading when inspecting a post indicator valve. Mechanical re-arrangement can sometimes occur, and the valve may be closed or partially closed even when the reading indicates "open." To verify that the post indicator valve is open, the inspector should feel a spring or

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torsion in the opening rod when the rod is turned beyond the wide open position.

C. Outside Stem and Yolk Valve

Outside stem and yolk valves (OS & Y) should be wide open when the stem is fully extended. However, to verify that the valve is completely open, the inspector must physically inspect the valve. To prevent jamming, it is important to first turn the hand wheel to open the stem all the way and then to set it back a quarter turn.

After the inspector has ensured that the valve is open, the valve must be locked. Inspections of locked valves must be performed monthly and recorded by date of inspection in the inspection files.

## 2.4.2 Automatic Sprinkler Systems

A. Wet, Dry, and Combination Systems

During the operating season, wet, dry, and combination systems are inspected on a monthly basis. Valves, gauges, and pipes are inspected for damage, cracks and leaks.

Inspections during non-operating months are completed every two weeks.

B. Wet Systems

In order to maintain the wet systems, they are inspected regularly during the winter months to ensure a stable temperature.

## 2.4.3 Utility Corridor Valves

Utility corridor valves are located throughout the Park in specific locations. These are indicated in the Fire Protection System Map located in the Pre-Plan book. Utility Corridor valves are inspected every other month. A select few are locked out to ensure that water flow is not circulated through the County water supply.

A plumber must first remove the ground level cap, use a "T-bar" to turn the valve two full turns toward closing, reverse the "T-bar" until it stops, and then turn it back one quarter turn.

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#### **2.4.4 Fire Pump House- Located behind the Rockville Theatre**

### **2.5 FIRE PROTECTION SHUT DOWN PROCEDURES**

During the year, it is often necessary to shut down sprinkler systems, water lines, fire hydrants, and the diesel pump to make repairs, alterations, or extensions on fire protection system equipment.

#### **2.5.1 Plumbing**

- A. Notify the Safety Department prior to any shut down of the fire protection system.

NOTE: During non-operating or non-office hours, Security should be contacted. Security will then notify a Safety Officer.

- B. Plumbing should be prepared with all required parts and equipment ready and available before shutting any valves. Provide plugs to close piping immediately in order to restore fire protection to the extent possible in case of fire. Complete the excavating.
- C. Fasten an IRI red tag to each shut valve.
- D. Continue the work until completed. Do not leave the fire protection system out of service any longer than absolutely necessary.
- E. Stop all hazardous processes. Cutting and welding must be stopped until fire protection is restored.
- F. A Plumbing employee must remain in the immediate vicinity of the closed valve prepared to open the valve in case of fire.
- G. When work is completed:
  - 1. Make certain that the valve is wide open.
  - 2. Make a drain test.
  - 3. Lock the valve.
  - 4. Remove the red tag.
  - 5. Notify the Safety Department that the work is complete.
  - 6. Notify Communications that the work is complete.

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### **2.5.2 Safety Department**

- A. Upon notification of fire protection shut down, review steps to be taken by Plumbing.
- B. Ensure that extra fire extinguishers are available in affected areas.
- C. Fill in the first half of the IPI Fire Protection Shut Off card.
- D. Advise them what fire protection system will be out of service, the approximate time and duration that the system will be out of service and the reason for the shut off.
- E. Notify Security to assure that the affected area is patrolled.
- F. When the work is complete and fire protection is restored the Safety Department will:
  - 1. Complete the Record of Valve Closures card.
  - 2. Finish the Fire Protection Shut Off card.
  - 3. File both cards.
  - 4. Notify the 900 unit that fire protection has been restored.
  - 5. Notify Security that fire protection has been restored.

## **2.6 EMERGENCY SHUT OFF**

If unsure about how to follow these procedures for emergency fire protection shut off, immediately contact the 900 unit.

- A. Locate the proper valve and shut off.
- B. Notify the Safety and Security Departments immediately.
- C. Notify Plumbing immediately.
- D. If the emergency occurs after hours, notify the following persons (in this order) until someone is reached:

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- E. As instructed:
  - 1. Notify unit 900 shut down at park specific area fire protection system.
  - 2. Tag the shut off system with a red shut off card.
- F. If plumbing is called to make repairs, notify Security as soon as the work is completed.
- G. Unit 200 or 201 must be notified as soon as fire protection is restored and the shut off tag has been removed from the system. As instructed on the Fire Protection Shut Off card, the Plumbing staff who makes the repairs should sign the card after testing the system.
- H. Once the fire protection system is back in service, a Safety Officer shall verify that the sprinkler system is locked back on.

## 2.7 INSPECTIONS

Halon systems are to be checked monthly. The visual check shall include at a minimum the following:

- a. System is in its proper location as intended and the directional nozzles are clear from obstructions.
- b. Manual Pull Station is unobstructed and Panel is clear.
- c. Service inspection tag is in place.
- d. Tamper seal is secure and in place.
- e. No physical damage is noted to any component of the system.
- f. Pressure Gauge is in the operable range.
- g. Appropriate warning signs are in place.
- h. Annual certification from outside certified contractor.

If any deficiencies are found notify the Safety Department immediately.

Kitchen Systems:

- a. System is in its proper location as intended and the directional nozzles are clear from obstructions.
- b. Manual Pull Station is unobstructed and Panel is clear.
- c. Service inspection tag is in place.
- d. Tamper seal is secure and in place.

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- e. No physical damage is noted to any component of the system.
- f. Pressure Gauge is in the operable range.
- g. Appropriate warning signs are in place.
- h. Annual certification from outside certified contractor.
- i. Ensure all equipment is in place 6” in at each end and under the hood.
- j. Filters are in place.
- k. Semi-annual inspection and certification will be conducted by a certified contractor.

Records of daily and weekly inspections shall be kept on file in the Maintenance Office. The records shall have the date of inspection and the person inspecting the system documented. Records of all certifications are to be coordinated by the Safety Office.